Course: MMDS Lab 03 MapReduce

Fill answers of the questions below in the given tables. Your screenshots must contain commands for required operations.

Question 1:

Given a tsv file <u>WHO-COVID-19-20210601-213841.tsv</u> which is corresponding to the <u>WHO Coronavirus (COVID-19) Dashboard.</u>

Students are required to create a folder, named lab03, in HDFS and then copy the tsv to lab03/input/

Take a screenshot to show the content of lab03/input/ in HDFS

```
My screenshot
pkucpkam@PhucPham:~/Desktop/hadoop-3.2.1$ bin/hdfs dfs -mkdir /lab03
pkucpkam@PhucPham:~/Desktop/hadoop-3.2.1$ bin/hdfs dfs -mkdir /lab03/input
pkucpkam@PhucPham:~/Desktop/hadoop-3.2.1$ hdfs dfs -put ~/Downloads/WHO-COVID-19-202
10601-213841.tsv /lab03/input/
2025-02-12 00:30:10,825 INFO sasl.SaslDataTransferClient: SASL encryption trust chec k: localHostTrusted = false, remoteHostTrusted = false / labout file or lie / labout file / labout f
```

Question 2:

Create one and only one java file, named **ASEANCaseCount.java**, to run a MapReduce job that counts the number of cumulative total cases among ASEAN countries (*South-East Asia Region in the given data table*).

The output of the MapReduce job is located in lab03/output-java/.

Submit the source code file following the instructions in Submission Notice.

Result screen:

```
pkucpkam@PhucPham:~/Desktop/hadoop-3.2.1$ hdfs dfs -cat /lab03/output-java/part-
r-00000
2025-02-22 07:42:04,072 INFO sasl.SaslDataTransferClient: SASL encryption trust
check: localHostTrusted = false, remoteHostTrusted = false
South-East Asia 31923614
```

Question 3 (optional):

Create a pair of Python files, named **ASEANDeathCountMapper.py** and **ASEANDeathCountReducer.py**, to run a MapReduce job that counts the number of cumulative total deaths among ASEAN countries (*South-East Asia Region in the given data table*).

The output of the MapReduce job is located in lab03/output-python/.

Submit the source code files following the instructions in Submission Notice.

Result screen:

```
pkucpkam@PhucPham:~/Desktop/hadoop-3.2.1$ hadoop fs -cat /lab03/output-python/pa
rt-00000
2025-02-22 08:01:46,807 INFO sasl.SaslDataTransferClient: SASL encryption trust
check: localHostTrusted = false, remoteHostTrusted = false
South-East Asia 408426
```